

**STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)  
CONTINUOUS (24 HOUR) CLOSURE  
DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

**OCTOBER**

Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY WESTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	313	0.0	96	0.0	1500	313	0	96	0.45	0	65.8	46.5	44.2	24.1	24.1
1-2 AM	202	0.0	62	0.0	1500	202	0	62	0.44	0	66.0	46.9	44.6	24.3	24.3
2-3 AM	182	0.0	56	0.0	1500	182	0	56	0.44	0	66.1	47.0	44.8	24.4	24.4
3-4 AM	136	0.0	42	0.0	1500	136	0	42	0.44	0	66.1	47.2	45.0	24.5	24.5
4-5 AM	247	0.0	76	0.0	1500	247	0	76	0.45	0	66.0	46.8	44.5	24.3	24.3
5-6 AM	467	0.0	143	0.0	1500	467	0	143	0.47	0	65.5	46.0	43.7	23.7	23.7
6-7 AM	695	0.0	213	0.0	1500	695	0	213	0.49	0	65.1	45.1	42.8	23.2	23.2
7-8 AM	1109	0.0	340	0.0	1500	1109	0	340	0.53	0	64.3	43.7	41.3	22.2	22.2
8-9 AM	1406	0.0	431	0.0	1499	1406	0	431	0.90	0	63.8	35.5	32.9	21.5	21.5
9-10 AM	1529	0.0	468	0.0	1499	1529	0	468	1.32	9	63.5	29.4	31.0	21.2	21.2
10-11 AM	1814	0.0	556	0.0	1500	1814	0	556	7.31	188	63.0	11.4	30.8	20.6	21.4
11A-NOON	1800	0.0	552	0.0	1499	1704	96	648	18.70	480	63.0	7.4	30.8	20.6	22.0
NOON-1PM	1907	0.0	585	0.0	1499	1543	365	949	22.78	587	62.8	6.9	30.8	20.4	20.0
1-2 PM	1823	0.0	559	0.0	1499	1464	359	918	22.46	579	63.0	6.9	30.8	20.6	20.2
2-3 PM	1762	0.0	540	0.0	1500	1479	283	824	21.53	553	63.1	7.0	30.8	20.7	20.9
3-4 PM	1661	0.0	510	0.0	1500	1466	196	705	20.45	524	63.3	7.1	30.8	20.9	21.7
4-5 PM	1511	0.0	463	0.0	1500	1461	50	513	18.90	482	63.6	7.3	30.8	21.3	23.0
5-6 PM	1511	0.0	463	0.0	1500	1500	11	474	18.61	474	63.6	7.4	30.8	21.3	23.3
6-7 PM	1369	0.0	419	0.0	1499	1369	0	419	16.53	419	63.8	7.7	30.8	21.6	23.5
7-8 PM	1017	0.0	312	0.0	1499	1017	0	312	2.87	131	64.5	21.5	37.8	22.4	23.0
8-9 PM	874	0.0	268	0.0	1500	874	0	268	0.51	0	64.8	44.5	42.1	22.8	22.8
9-10 PM	747	0.0	230	0.0	1500	747	0	230	0.49	0	65.0	44.9	42.6	23.1	23.1
10-11 PM	615	0.0	188	0.0	1500	615	0	188	0.48	0	65.3	45.4	43.1	23.4	23.4
11PM-MID	425	0.0	130	0.0	1500	425	0	130	0.46	0	65.6	46.1	43.8	23.8	23.8

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0048
MAIN ROUTE WITH WORKS	0.0030
DIVERSION	0.0724

PIA: Personal Injury Accidents

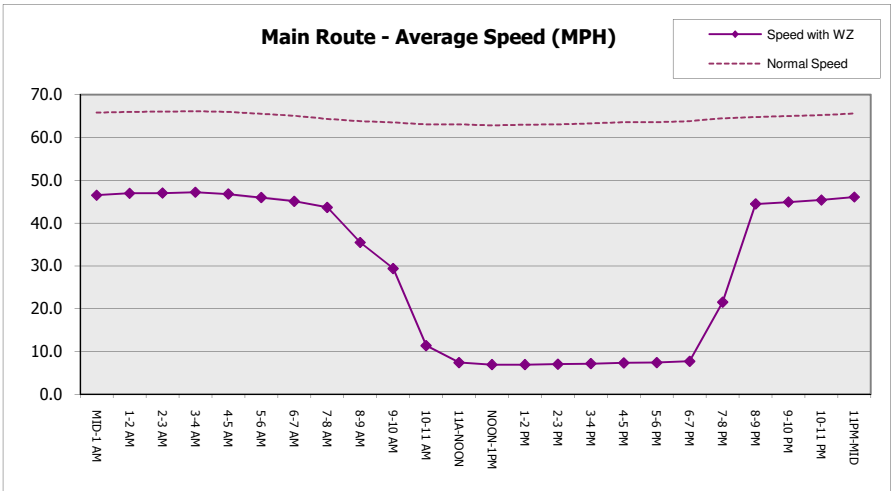
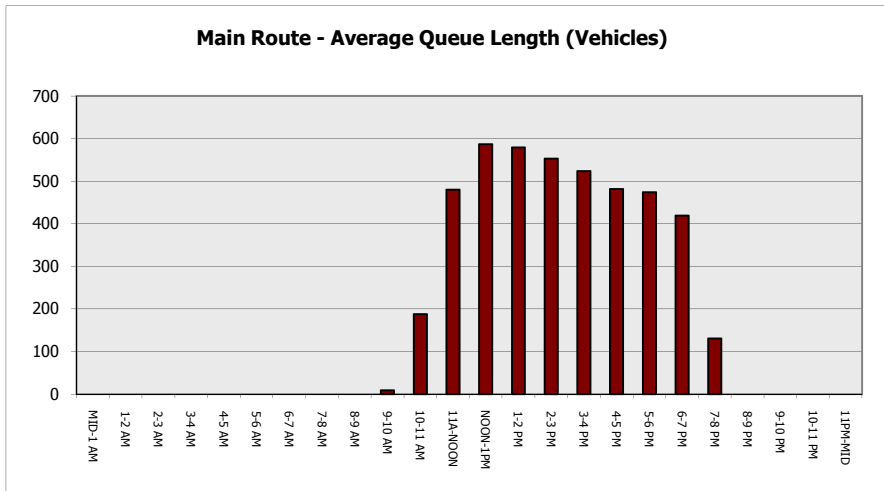
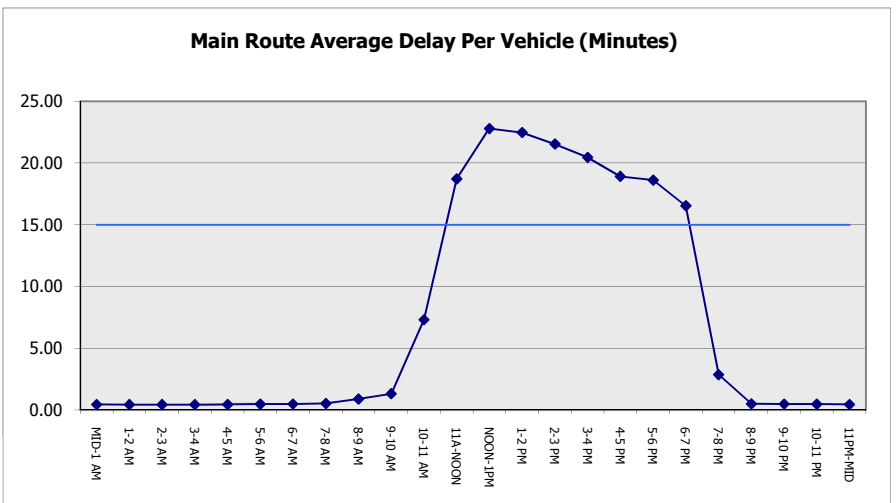
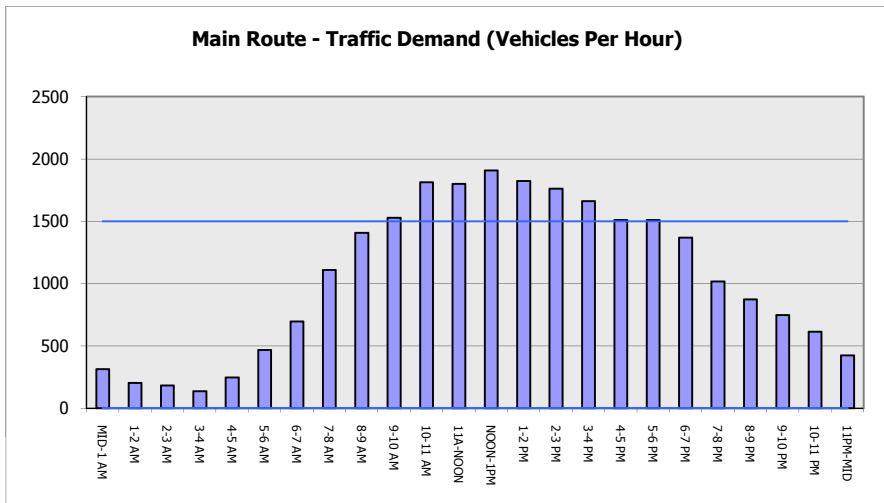
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$89,596
CONGESTED HOURS PER DAY*	8

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY WESTBOUND DIRECTION**



<b>STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: PROSPECT AVENUE - STH 47</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	463	0.0	142	0.0	1500	463	0	142	0.47	0	65.5	46.0	43.7	23.7	23.7
1-2 AM	298	0.0	92	0.0	1500	298	0	92	0.45	0	65.8	46.6	44.3	24.2	24.2
2-3 AM	241	0.0	74	0.0	1500	241	0	74	0.45	0	66.0	46.8	44.5	24.3	24.3
3-4 AM	145	0.0	44	0.0	1500	145	0	44	0.44	0	66.1	47.2	44.9	24.5	24.5
4-5 AM	166	0.0	50	0.0	1500	166	0	50	0.44	0	66.1	47.1	44.8	24.5	24.5
5-6 AM	337	0.0	103	0.0	1500	337	0	103	0.46	0	65.8	46.5	44.2	24.0	24.0
6-7 AM	635	0.0	195	0.0	1500	635	0	195	0.48	0	65.2	45.3	43.0	23.3	23.3
7-8 AM	779	0.0	239	0.0	1500	779	0	239	0.50	0	65.0	44.8	42.5	23.0	23.0
8-9 AM	1198	0.0	368	0.0	1499	1198	0	368	0.63	0	64.1	41.0	38.6	22.0	22.0
9-10 AM	1485	0.0	455	0.0	1499	1485	0	455	1.21	8	63.6	30.7	31.9	21.4	21.4
10-11 AM	1844	0.0	565	0.0	1500	1844	0	565	7.24	189	63.0	11.5	30.8	20.5	21.3
11A-NOON	1948	0.0	597	0.0	1499	1747	201	799	20.61	532	62.8	7.1	30.8	20.2	21.0
NOON-1PM	2222	0.0	681	0.0	1500	1625	597	1278	26.88	699	62.2	6.6	30.8	19.6	17.8
1-2 PM	2117	0.0	649	0.0	1499	1448	668	1317	27.45	714	62.5	6.5	30.8	19.9	17.5
2-3 PM	2220	0.0	680	0.0	1500	1554	666	1347	27.89	726	62.2	6.5	30.8	19.6	17.3
3-4 PM	2234	0.0	685	0.0	1499	1509	725	1410	28.90	753	62.2	6.4	30.8	19.6	16.8
4-5 PM	2259	0.0	693	0.0	1499	1512	747	1440	29.42	767	62.2	6.4	30.8	19.5	16.6
5-6 PM	2188	0.0	670	0.0	1499	1453	735	1405	28.83	751	62.3	6.4	30.8	19.7	16.9
6-7 PM	1973	0.0	605	0.0	1499	1383	590	1196	25.76	668	62.7	6.6	30.8	20.2	18.3
7-8 PM	1541	0.0	473	0.0	1500	1352	189	662	20.10	515	63.5	7.2	30.8	21.2	22.0
8-9 PM	1310	0.0	401	0.0	1499	1310	0	401	14.77	373	64.0	8.1	30.8	21.7	23.4
9-10 PM	1215	0.0	373	0.0	1499	1215	0	373	4.70	138	64.1	15.1	33.5	22.0	22.5
10-11 PM	927	0.0	284	0.0	1500	927	0	284	0.51	0	64.6	44.3	41.9	22.7	22.7
11PM-MID	614	0.0	188	0.0	1500	614	0	188	0.48	0	65.3	45.4	43.1	23.4	23.4

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0058
MAIN ROUTE WITH WORKS	0.0032
DIVERSION	0.1152

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$165,576
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding 15 Minutes

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 DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

**OCTOBER**  
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 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY EASTBOUND DIRECTION**

